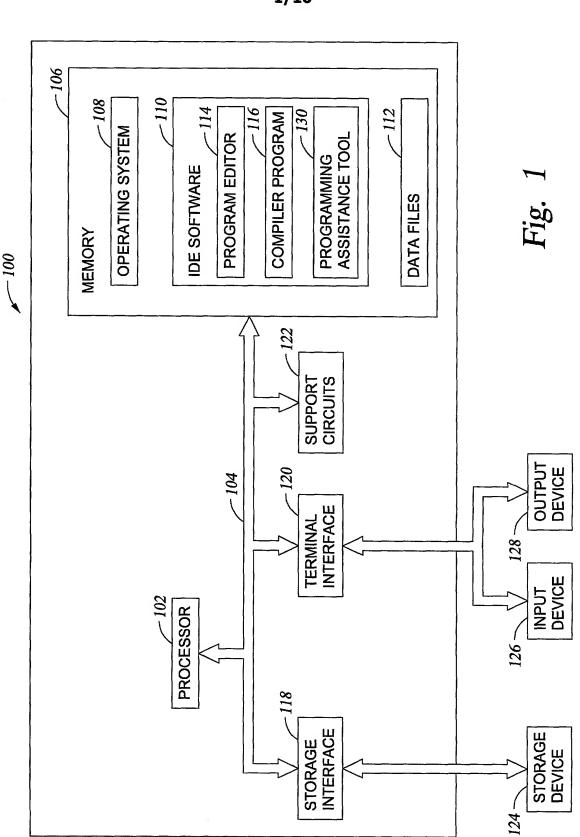
$ldsymbol{f L}$

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 \neg



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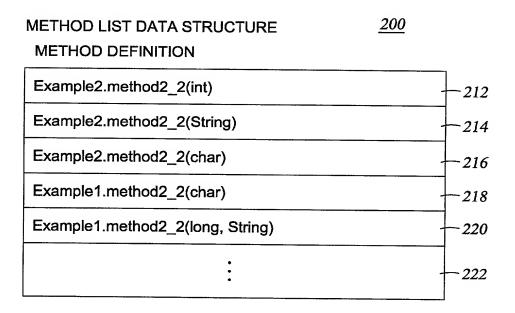


Fig. 2

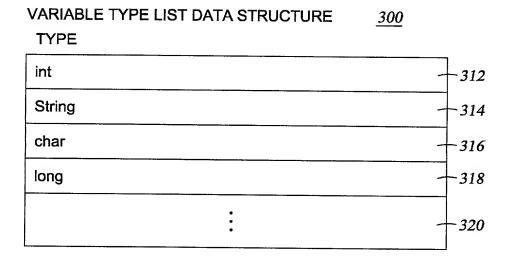


Fig. 3

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VARIABLE LIST DATA STRUCTURE (AFTER INTERNAL VARIABLES)

<u>400</u>

 \neg

VARIABLES

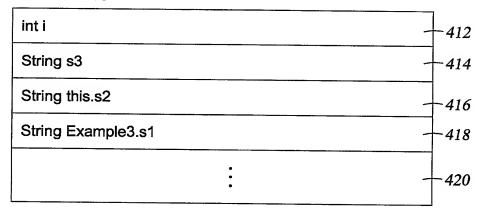


Fig. 4

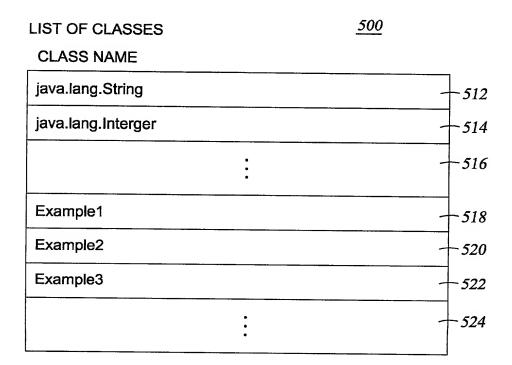


Fig. 5

L

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VARIABLE LIST DATA STRUCTURE (AFTER EXTERNAL VARIABLES)

<u>600</u>

 \neg

VARIABLE

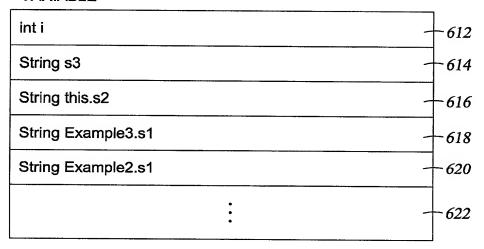


Fig. 6

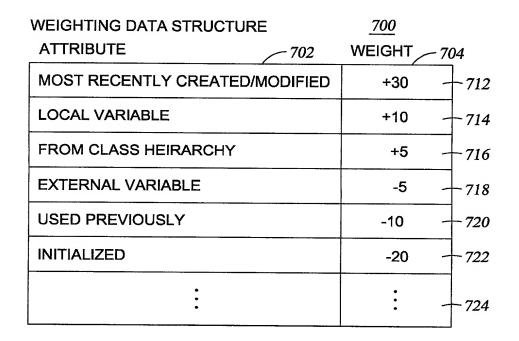


Fig. 7

L

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VARIABLE LIST DATA STRUCTURE (AFTER RANKING)	<u>800</u>	
VARIABLE 802		804
int i	2	812
String s3	45	-81
String this.s2	22	810
String Example3.s1	10	818
String Example2.s1	0	820
•	•	

Fig. 8

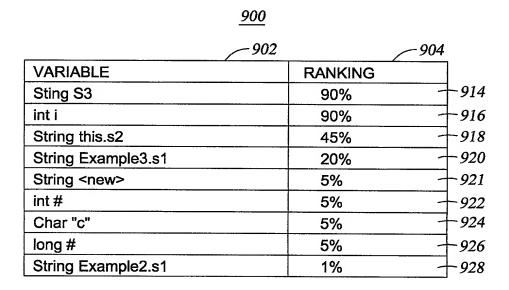


Fig. 9

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```
-10A
public String getLibraryName(String line)
    int size = line.length()
    String temp = null:
    if (size >= 10)
        temp = line.substring(0.10)
    else
        return null;
    String fileName = this.
                                                      1002A
                             begin(void) void
                             format (String) String
        return (fileName);
                             getSystemName(String) String
}
                             init(void) void
```

Fig. 10A

```
-10B
public String getLibraryName(String line)
    int size = line.length()
    String temp = null;
    if (size >= 10)
        temp = line.substring(0, 10)
    return null;
                                       - 1001B
    String fileName = this.format( ()
                                                   -1002B
                                     String fileName
        return (fileName);
                                     String line
                                     String temp
}
                                     String <new>
```

Fig. 10B

1

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```
public class Example1 {
   public void method2_2(char c) {
     return;
  }
   public void method2_2(long I, String s) { // overloaded method
     return;
  }
}
public class Example2 extends Example1 {
   public static String s1 = "hello"; // class variable
   public String s2 = "there"; // instance variable
  public String s3 = "don't touch"; // variable inaccessable externally
   public static void method2_1() {// class method
     return;
   public static void method2_2(int i){ // instance method
     String s= "jump"; // local variable, instance of the String class
     Example2.method2_1(); // calling a class method on a class object
     s.length(); // calling an instance method
  }
   public void method2_2(String s){ // overloaded method
     return;
  }
```

```
90%
     String s3
                            -1002C
90%
      int i
45%
      String this.s2
20%
     String Example3.s1
5%
      String <new>
5%
      int#
5%
      char 'c'
5%
      long#
     String Example2.s1
1%
```

Fig. 11B

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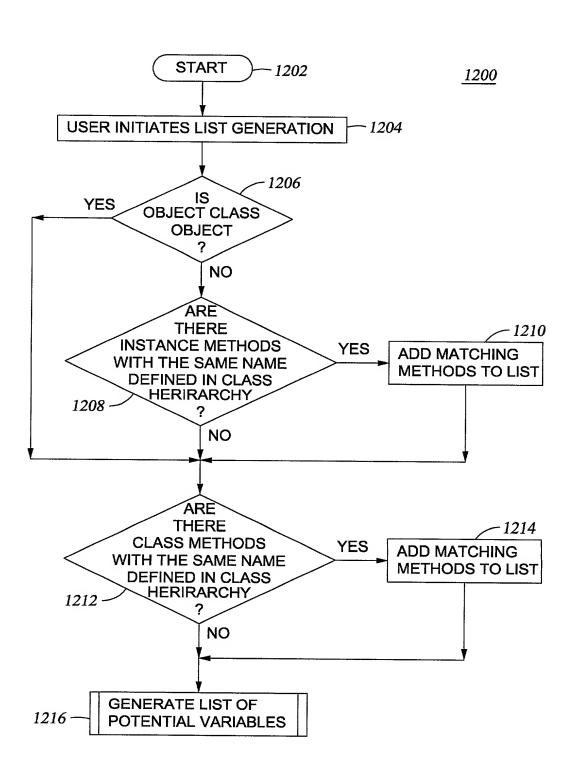


Fig. 12

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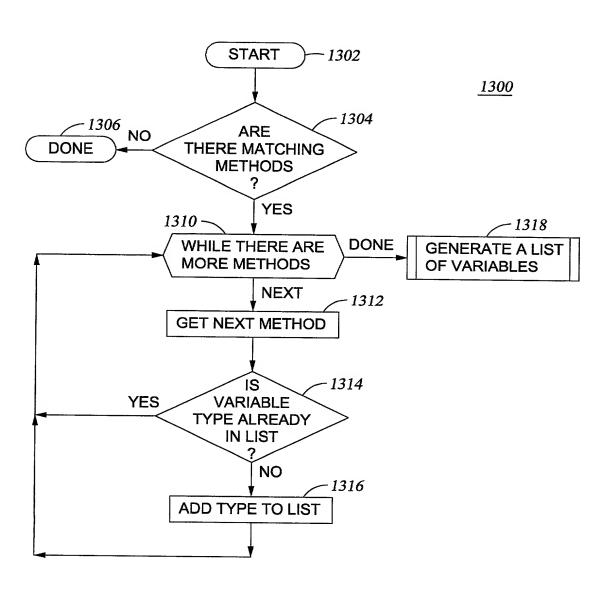
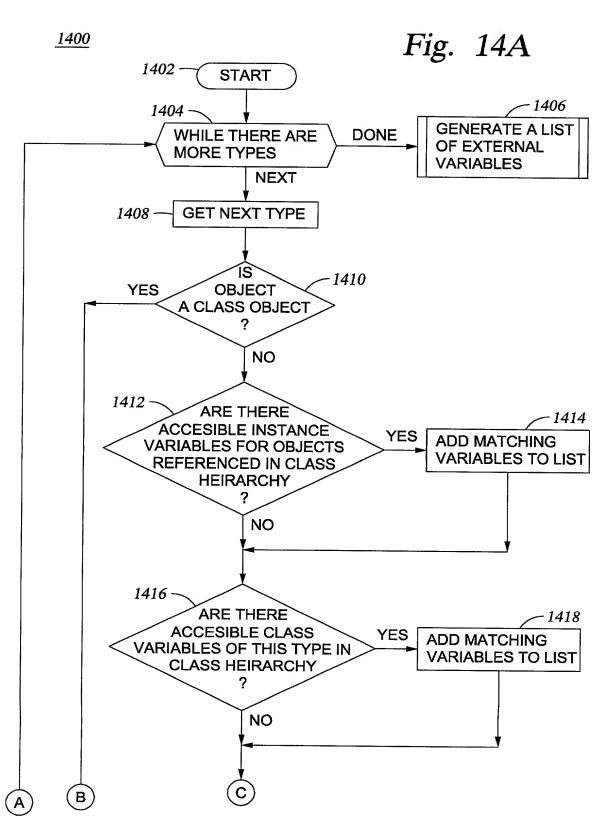


Fig. 13

 $ldsymbol{le}}}}}}}$

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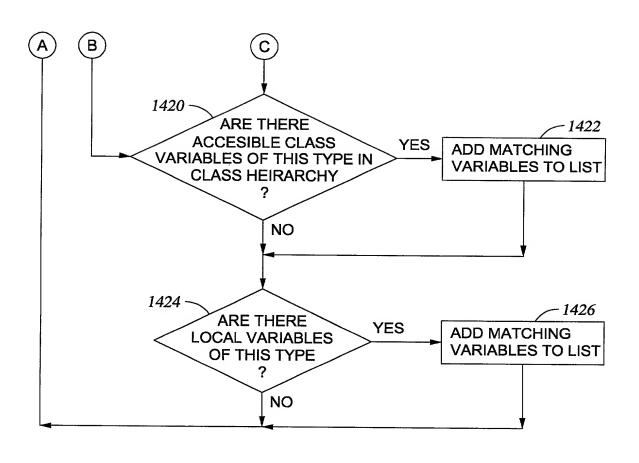


Fig. 14B

L

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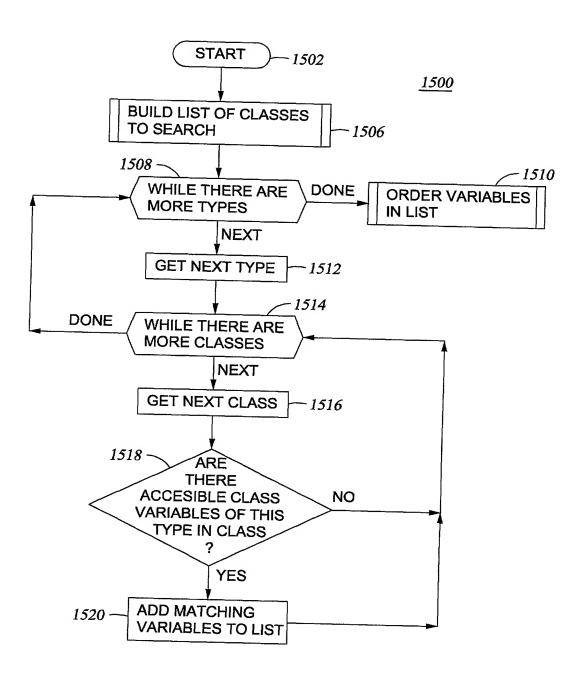


Fig. 15

L__

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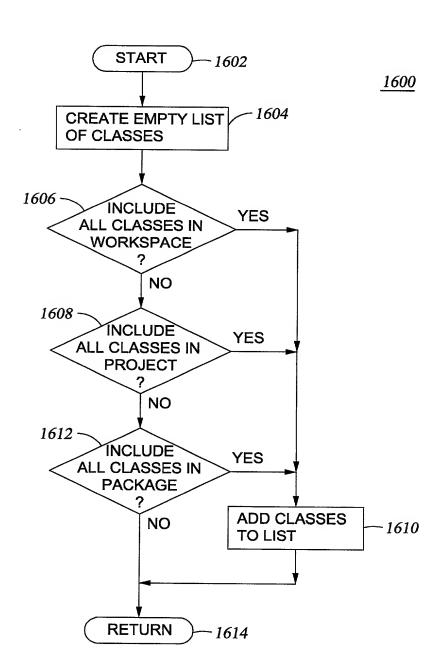


Fig. 16

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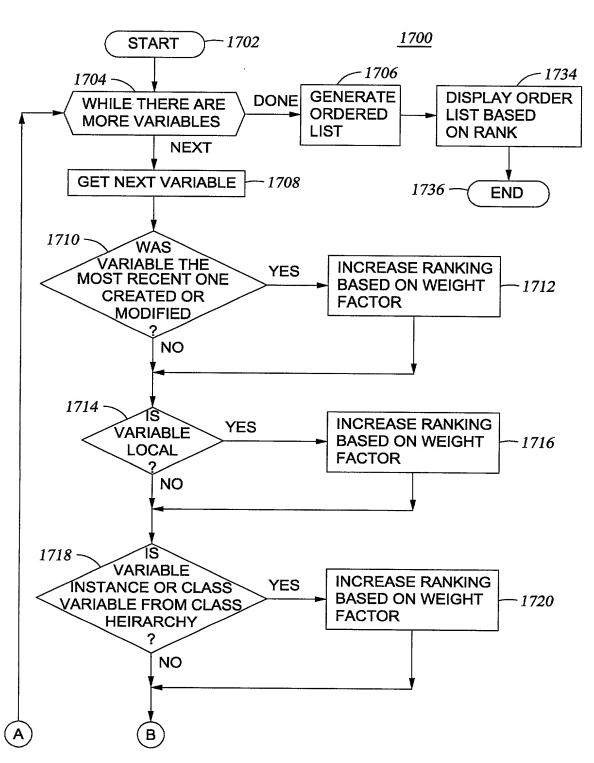


Fig. 17A

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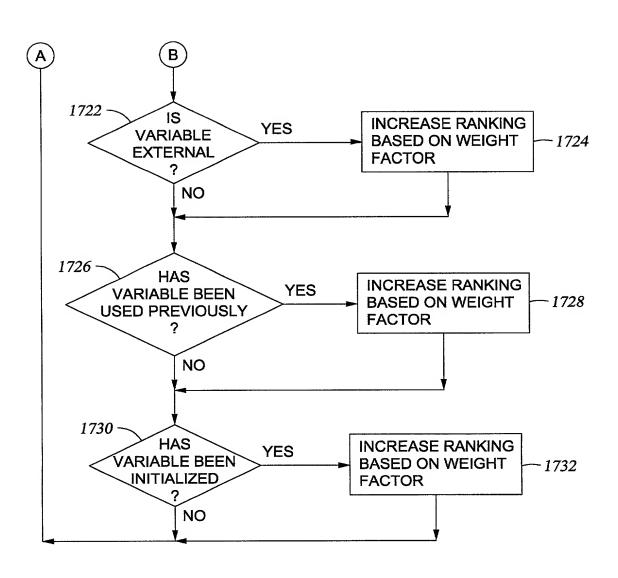


Fig. 17B